TABLE III

Pen	Test/Control	Avg Bird Wt (lbs)	Feed/Gain
65	Test	1.184	1.366
66	Test	1.129	1.380
67	Test	1.205	1.358
68	Test	1.194	1.363
69	Test	1.216	1.368
70	Test	1.228	1.371
72	Test	1.290	1.364
64	Control	1.177	1.392
63	Control	1.130	1.388
53	Control	1.141	1.383
27	Control	1.062	1.419
30	Control	1.130	1.406
18	Control	1.103	1.385
71	Control	1.186	1.452

TABLE IV

	SUMMARY OF DATA	
	AVG BODY WT (lbs) DAY 21	AVG FEED/GAIN DAY 21
Control	1.133	1.404
Test	1.206	1.367

TABLE V

	ANALYSIS OF VARIANCE			
	DF*	SS**	MS***	F****
	21 DAY BODY WEIGHT			
Treatment	1	0.0199	0.01909	13.30856
Replication	6	0.01635	0.00273	1.89955
Error	6	0.00861	0.00143	
Total	13	0.04406		
	21 DAY FEED/GAIN			
Treatment	1	0.00465	0.00465	12.14572
Replication	6	0.00173	0.00029	0.75371
Error	6	0.00230	0.00038	
Total	13	0.00867		

*Degrees of Freedom
**Sum of Squares
***Standard Error of Mean
****Assessment of Significance

TABLE VI

Pen	Test/Control	Avg Bird Wt (lbs)	Feed/Gain
65	Test	4.970	1.902
66	Test	4.868	1.879
67	Test	4.672	1.936
68	Test	4.803	1.896
69	Test	4.908	1.925
70	Test	4.941	1.824
72	Test	4.820	1.859
64	Control	4.669	1.921
63	Control	4.695	1.933
53	Control	4.415	1.996
27	Control	4.205	1.924
30	Control	4.800	1.933
18	Control	4.586	1.901
71	Control	4.738	1.909

TABLE VII

	SUMMARY OF DATA	
	AVG BODY WT (lbs) DAY 21	AVG FEED/GAIN DAY 21
Control	4.587	1.931
Test	4.854	1.889

TABLE VIII

	ANALYSIS OF VARIANCE			
	DF*	SS**	MS***	F****
	46 DAY BODY WEIGHT			
Trtmnt	1	0.25089	0.25089	16.11932
Repl	6	0.22965	0.03827	2.45906
Error	6	0.09339	0.01556	
Total	13	0.57393		
	46 DAY FEED/GAIN			
Trtmnt	1	0.00627	0.006272	20.78077
Repl	6	0.01290	0.002157	7.12865
Error	6	0.00181	0.00030	
Total	13	0.02097		

*Degrees of Freedom
**Sum of Squares
***Standard Error of Mean
****Assessment of Significance

TABLE IX

	PROBABILITY LEVEL = 0.05	
TREATMENT	MEAN	SIGNIFICANCE
Control-Avg Body Wt, 21 day	1.133	B
Enzyme-Avg Body Wt, 21 day	1.206	A
Control-Avg Feed/Gain, 21 day	1.404	A
Enzyme-Avg Feed/Gain, 21 day	1.367	B
Control-Avg Body Wt, 46 day	4.587	B
Enzyme-Avg Body Wt, 46 day	4.854	A
Control-Avg Feed/Gain, 46 day	1.931	A
Enzyme-Avg Feed/Gain, 46 day	1.889	B

What is claimed is:

1. A feed composition comprising (A) protein, vitamins and minerals; (B) a source of carbohydrates, comprising a mannan-containing hemicellulose selected from the group consisting of soybeans, corn, and alfalfa; and (C) a mannanase that catalyzes the degradation of said mannan-containing hemicellulose, where the addition of said mannanase decreases the ratio of feed to gain, or increases weight gain, during growth of an animal fed said feed composition, relative to said animal fed on an identical feed composition absent said mannanase.

2. A feed composition according to claim **1**, wherein said mannanase is a *Bacillus mannanase.*

3. A feed composition according to claim **1**, wherein said group consists of soybeans and alfalfa.

4. A feed composition according to claim **1**, wherein said composition is for a monogastric animal.

5. A feed composition comprising soybean meal and a mannanase component that decreases the ratio of feed to gain, or increases weight gain, during growth of an animal fed said feed composition, relative to said animal fed an identical feed composition absent said mannanase.

6. A feed composition according to claim **5**, wherein said mannanase is a *Bacillus mannanase.*

7. A nutritive method for a monogastric animal, comprising the steps of (A) preparing a feed composition comprised of protein, vitamins and minerals, and further comprising a carbohydrate source comprised of mannan-containing hemicellulose selected from the group consisting of soybeans, corn, and alfalfa; and (B) incorporating into said composition a mannanase that catalyzes the degradation of said mannan-containing hemicellulose, where the addition of said mannanase decreases the ratio of feed to gain, or increases weight gain, during growth of an animal fed said feed composition, relative to said animal fed on an identical feed composition absent said mannanase.

8. A method according to claim **7**, wherein said group consists of soybeans and alfalfa.

9. A method according to claim **7**, wherein step (B) comprises (i) producing a mixture containing said mannanase and said composition and then (ii) pelletizing said mixture under conditions including temperatures of at least 60° C.

10. A method according to claim **9**, wherein said carbohydrate source is soybeans.

* * * * *